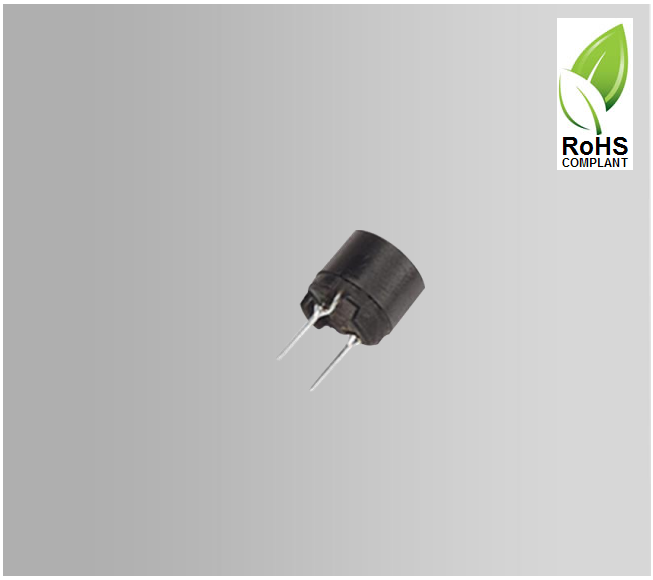
CODACA科达嘉

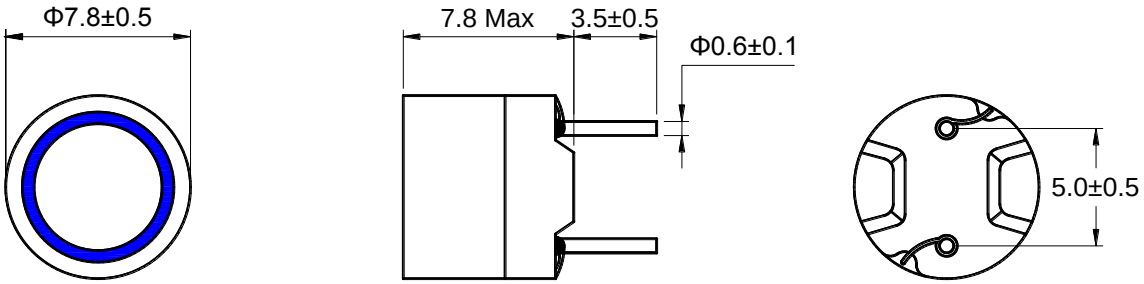
DIP Inductor
- PRD0807 Series



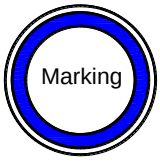
Outline:
产品概要

- Magnetically shielded construction, high reliability.
  磁屏蔽结构，高可靠性。
- Lead free product, RoHS compliant.
  无铅产品，符合 RoHS 指令。
- Widely used in power supply, DC-DC converter, computer and peripherals, air-condition, displayer, home electric appliance, and etc.
  适用于电源，DC-DC 转换器，电脑及其外围设备，空调，显示器，家用电器等。
- Operating temperature : -40℃ ～ +125℃
  (Including coil's temperature rise)
  工作温度：-40℃ ～ +125℃ (包含线圈发热)

1 Appearance and dimensions (mm)
外形尺寸

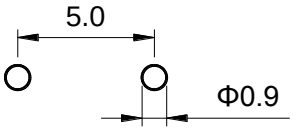


2 Marking
印字标识

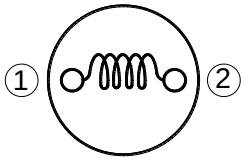


※ Marking is available if needed.
如果需要，产品可印字。

3 Reference hole pattern (mm)
参考焊孔尺寸



4 Schematic
原理图



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5 Electrical characteristics
电气特性

Part No. 型　号	Inductance (μH) 电感值 ※1	D.C.R. (mΩ) 直流电阻		Saturation current (A) 饱和电流 ※2	Temperature rise current (A) 温升电流 ※3
	±20%	Typical	Max	Typical	Typical
PRD0807-220M	22.0	56.0	67.2	1.50	1.20
PRD0807-330M	33.0	98.0	118	1.30	1.00
PRD0807-470M	47.0	119	143	1.10	0.80
PRD0807-680M	68.0	147	176	0.90	0.70
PRD0807-101M	100	224	269	0.70	0.50
PRD0807-221M	220	532	638	0.50	0.35
PRD0807-471M	470	1,000	1,210	0.32	0.25
PRD0807-102M	1,000	1,900	2,280	0.23	0.18
PRD0807-222M	2,200	5,290	6,350	0.15	0.10
PRD0807-472M	4,700	10,290	12,300	0.11	0.80
PRD0807-103M	10,000	24,500	29,400	0.07	0.05

■ All data is tested based on 25℃ ambient temperature.
所有数据基于环境温度 25℃条件下测试。

※1 Inductance measure condition at 100kHz, 0.1V.
电感测试条件为 100kHz，0.1V。

※2 Saturation current：the actual value of DC current when the inductance decrease 20% of its initial value.
饱和电流：电感值下降其初始值的 20%时所加载的实际直流电流值。

※3 Temperature rise current：the actual value of DC current when the temperature rise is ΔT40℃(Ta=25℃).
温升电流：使产品温度上升到 ΔT40℃时所加载的实际直流电流值(Ta=25℃)。

※ Special remind：Circuit design, component placement, PWB size and thickness, cooling system and etc. all will affect the product temperature. Please verify the product temperature in the final application.
特别提醒：线路设计，组件布局，印刷线路板(PWB)尺寸及厚度，散热系统等均会影响产品温度。
请务必在最终应用时，验证产品发热状况。

6 Saturation current VS temperature rise current curve
饱和电流 VS 温升电流曲线